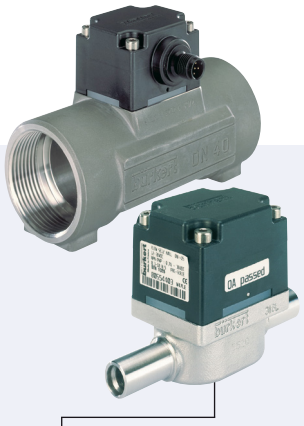
bürkert
FLUID CONTROL SYSTEMS

Flowmeter with paddle wheel for continuous flow measurement



- Economic integration in pipe systems without any additional piping
- Optic or magnetic measuring principle
- Configurable output: 1 analog 4…20 mA and/or 1 transistor output (frequency or switch)
- Outputs configurable (through interface on USB port with PC)

Type 8012 can be combined with…

Type 8619
multiCELL transmitter/controller

Type 2301 (8692)
ELEMENT control valve system

Type 8611
Universal process controller eCONTROL

Type 8032
Flow transmitter

Type PLC

The paddle wheel flowmeter for continuous flow measurement is especially designed for use with neutral, slightly aggressive, solid free liquids in its magnetic measuring version and for use with liquids which let pass the infra-reds in its optic measuring version.

The 8012 is made up of a fitting (S012) and an electronic module (SE12) which are connected together with screws. The Bürkert designed fitting system ensures simple installation into all pipes from DN06…DN65. It can also be installed in fluid block systems.

The 8012 produces a configurable frequency pulse signal, proportional to the flow rate, which can easily be transmitted and processed by a Bürkert remote transmitter/controller, or a configurable switch output or a 4…20 mA signal.

General data	
Compatibility	With Bürkert S012 fitting (see ordering chart)
Fitting process connections	
Metal	Internal or external thread (weld ends, clamp or flange on request)
Plastic	True union or external thread (spigot on request)
Materials	
Housing / Seal	PPS / EPDM
M12 fixed connector (gland on request)	PA
1 meter cable	PVC
Wetted parts	
Fitting	Brass, stainless steel 1.4404/316L, PVC, PP
Paddle wheel, holder	PVDF
Axis and bearing / Seal	Ceramics (AL_2O_3) / FKM (EPDM option)
Electrical connections	Free positionable 5 pin M12 male fixed connector (or with 1 m cable via cable gland, on request)
Connection cable	1.5 mm² max. cross-section
Complete device data (fitting + electronic module)	
Pipe diameter	DN06…DN50 (DN65 on request)
Measuring range	0.3…10 m/s
Measuring element	Optical – infra-red (or magnetic paddle wheel, on request)
Medium temperature with fitting in	
PVC/ PP	0…+60 °C *(+32…+140 °F)* / 0…+80 °C *(+32…+176 °F)*
Brass or stainless steel	-15…+100 °C *(+5…+212 °F)* (if T°ambient ≤45 °C) or -15…+90 °C *(+5…+194 °F)* (if 45 °C ≤ T°ambient ≤60° C)
Medium pressure max.	PN10 *(145 PSI)* (with plastic fitting), PN16 *(232 PSI)* (with metal fitting) – see pressure/temperature chart
Viscosity / Particles rate	300 cSt max. / 1 % max. (particle size 0.5 mm max.)
Measurement deviation[2)]	
Teach-In	±1 % of the measured value (at Teach-In flow rate value)[1)]
Standard K-factor	±2.5 % of the measured value[1)]
Linearity	±0.5 % of F.S.*[1)]
Repeatability	±0.4 % of the measured value[1)]

[1)] Under reference conditions i.e. measuring fluid = water, ambient and water temperature = 20 °C (68 °F), while maintaining the minimum inlet and outlet distances and the appropriate internal diameter of the pipes.
* F.S. = Full scale (10 m/s)
[2)] = "measurement bias" as defined in the standard JCGM 200:2012

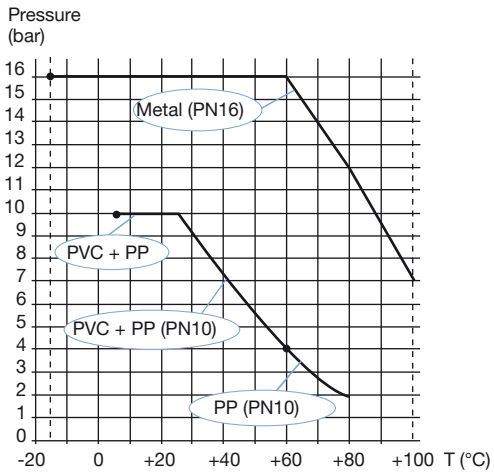
DTS 1000083708 EN Version: W Status: RL (released | freigegeben | validé) printed: 05.03.2018

Electrical data	
Power supply (V+)	12…36 V DC, filtered and regulated
Current consumption	< 60 mA (at 12 V DC for current version, without load)
Protection	Reversed polarity of DC: protected Voltage peak: protected Short circuit: protected for transistor outputs
Output Transistor	Transistor NPN (default setting)/PNP (configurable on request), open collector, max. 700 mA, NPN output: 0.2…36 V DC (default setting) PNP output: power supply frequency or switching mode
Current (according to version) (configurable on request)	4…20 mA (3 wire), sinking (default setting – configurable as sourcing on request), image of the flow velocity (default setting) max. loop impedance: 1125 Ω at 36 V DC ; 650 Ω at 24 V DC; 140 Ω at 12 V DC
Uncertainty of measurement (4…20 mA output)	± 1 %
Environment	
Ambient temperature	-15…+60 °C *(+5…+140 °F)* (operating and storage)
Relative humidity	≤ 80 %, without condensation
Standards, directives and certifications	
Protection class	IP67 with device wired and M12 cable plug mounted and tightened IP65 (with cable gland)
Standards and directives CE Pressure	The applied standards, which verify conformity with the EU Directives, can be found on the EU Type Examination Certificate and/or the EU Declaration of conformity (if applicable) Complying with article 4, §1 of 2014/68/EU directive*
Certifications / Certificates on request	Inspection certificate 3.1 (acc. to EN-ISO 10204); Test report 2.2 (acc. to EN-ISO 10204); Certification of Conformity for the surface Quality (DIN4762-DIN4768-ISO/4287/1); 3 points Flow calibration certificate; FDA (only for device with EPDM seal and stainless steel fitting)

*** For the 2014/68/EU pressure directive, the device can only be used under the following conditions (depends on max. pressure, pipe diameter and fluid).**

Type of Fluid	Conditions
Fluid group 1, article 4, §1.c.i	DN ≤ 25
Fluid group 2, article 4, §1.c.i	DN ≤ 32 or PN*DN ≤ 1000
Fluid group 1, article 4, §1.c.ii	DN ≤ 25 or PN*DN ≤ 2000
Fluid group 2, article 4, §1.c.ii	DN ≤ 200 or PN ≤ 10 or PN*DN ≤ 5000

Pressure/temperature chart



DTS 1000083708 EN Version: W Status: RL (released | freigegeben | validé) printed: 05.03.2018

Main Features

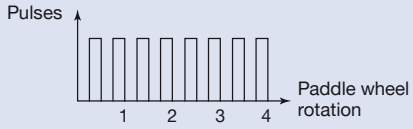
8012 with optical (standard) or magnetic (on request) principle.

Version with transistor output:

- Transistor output: NPN (standard) or PNP (on request) operation.
- With one configured transistor output mode (4 possibilities):
  - Raw frequency (standard) – (2 pulses per paddle wheel rotation).

Raw frequency

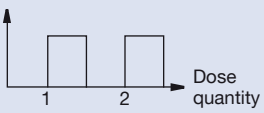
Pulse length:
– 50 % ON
– 50 % OFF



  - Proportional frequency (on request) – (e.g. 5 pulses per litre).

Proportional frequency

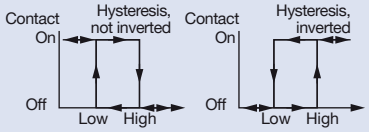
Pulse length:
– 50 % ON
– 50 % OFF



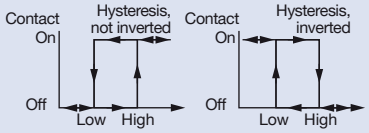
  - Switching mode:
    – 2 switching modes for the output, either hysteresis or window, inverted or not, depending on the kind of the transistor output.
    – Configurable delay before switching.

Hysteresis operation

NPN

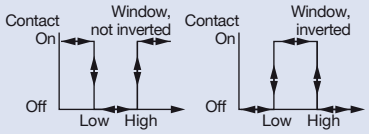


PNP

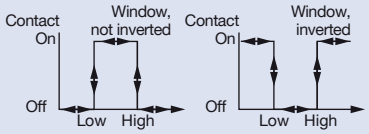


Window operation

NPN



PNP



  - Detection of flow direction – only with optical principle.

Version with transistor and current outputs:

Transistor output:

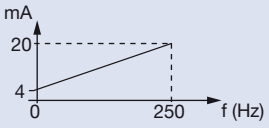
- Same features described as above.

Current output:

- with sinking (standard) or sourcing (on request) wiring.
- 8012 with configurable current output:
  - 4…20 mA current corresponding to paddle wheel frequency (0…250 Hz) – (standard).

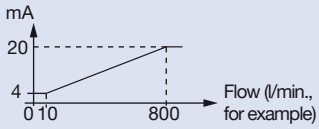
Paddle wheel frequency

and Q = f/K
where Q: flow rate [l/s]
f: frequency [Hz]
K: K-factor [pulse/litre]



  - 4…20 mA current corresponding to a flow range – (on request).

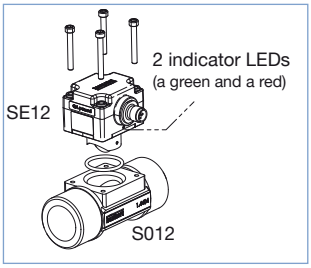
Flow range



  - Damping of current output signal.
  - Generation of an alarm current (22 mA) – when fluid circulation is opposite to the direction indicated by the arrow on the side of the housing (only versions with optical principle) or when full scale has been exceeded (versions with optical or magnetic principle).

DTS 1000083708 EN Version: W Status: RL (released | freigegeben | validé) printed: 05.03.2018

Design and operating principle



The 8012 flowmeter is built up with an electronic module and a measurement paddle wheel associated to a fitting. This connection is made by means of screws.
The SE12 electronic module is equipped with 2 indicator LEDs, visible by transparency under the fixed connector (standard). When the device is energized, the green indicator LED lights up and then flashes proportionally to the rotation frequency of the paddle wheel. The switch on of the red indicator LED indicates a malfunction of the device.
When liquid flows through the pipe, the paddle wheel is set in rotation. The non-wetted permanent magnets inserted in the paddle wheel generate a measuring signal which frequency is proportional to the flow velocity.

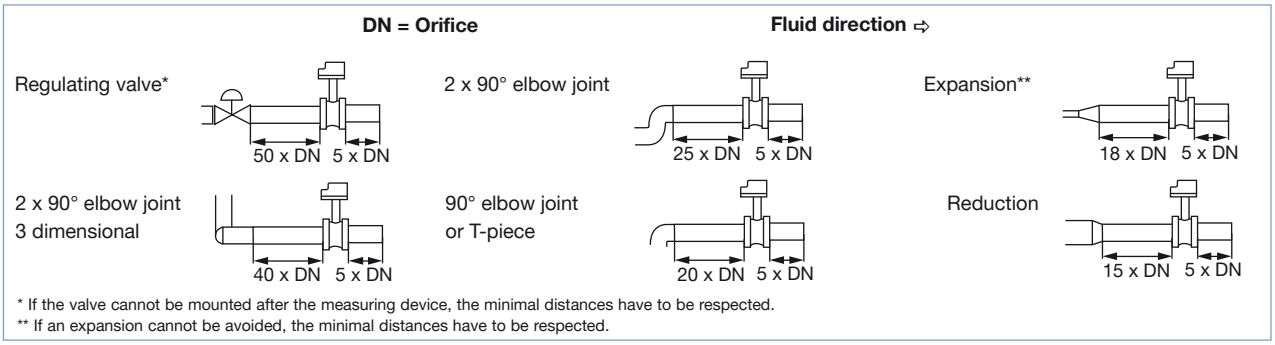
Two electronic module versions allow the following outputs:
– with one pulse output (either NPN or PNP transistor output – configurable).
An external power supply of 12…36 V DC is required. This pulse output generates a signal whose frequency is proportional to the flow velocity. It is designed for connection to any system with open collector NPN or PNP frequency input.
– with one 4…20 mA current output and one pulse output (either NPN or PNP transistor output configurable).
An external power supply of 12…36 V DC is required. The 4…20 mA output delivers a current whose value is the image of the flow velocity

The output signal is provided via a free positionable male 5 pin M12 fixed connector (or a cable gland with 1 m-length cable on request).

Installation

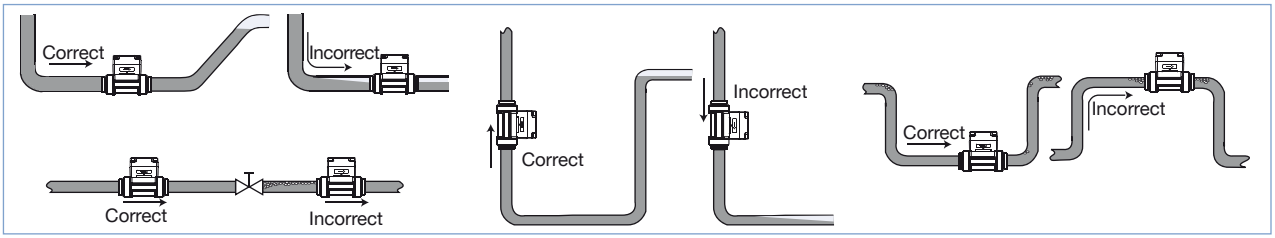
Minimum straight upstream and downstream distances must be observed. According to the pipe's design, necessary distances can be bigger or use a flow conditioner to obtain the best accuracy.
Fore more information, please refer to EN ISO 5167-1.

EN ISO 5167-1 prescribes the straight inlet and outlet distances that must be complied with when installing fittings in pipe lines in order to achieve calm flow conditions. The most important layouts that could lead to turbulence in the flow are shown below, together with the associated prescribed minimum inlet and outlet distances.
These ensure calm, problem-free measurement conditions at the measurement point.



* If the valve cannot be mounted after the measuring device, the minimal distances have to be respected.
** If an expansion cannot be avoided, the minimal distances have to be respected.

The flowmeter can be installed in either horizontal or vertical pipes, but following additional conditions should be respected:
- always install the 8012 so that the paddle wheel axis is horizontal.
- ensure the pipe is maintained full at all times, near the device.
- ensure the pipe design does not allow the build-up of air bubbles or cavities within the medium, near the device.



Pressure and temperature ratings must be respected according to the selected fitting material. The suitable pipe size is selected using the diagram Flow/Velocity/DN. The flowmeter is not designed for gas flow measurement.

DTS 1000083708 EN Version: W Status: RL (released | freigegeben | validé) printed: 05.03.2018

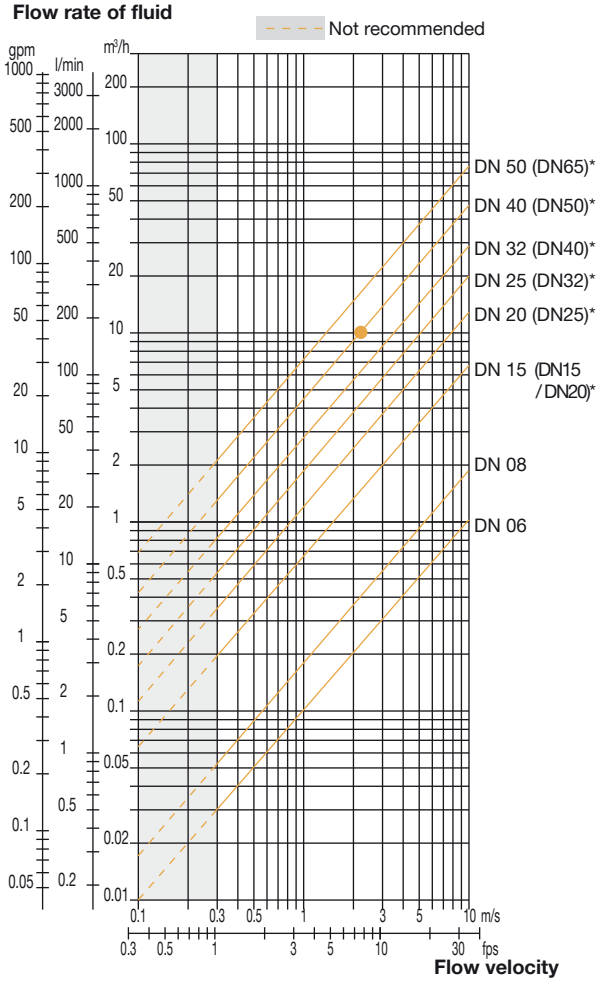
Diagram Flow/Velocity/DN

Example:

– Specification of nominal flow: 10 m³/h
– Ideal flow velocity: 2…3 m/s

For these specifications, the diagram indicates a pipe size of DN40 (or DN50 for (*) mentioned fittings).

Flow rate of fluid

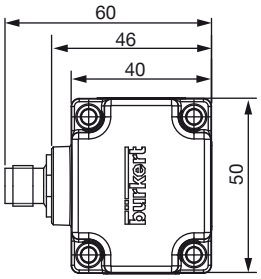


*** for following fittings with:**
– external threads acc. to SMS 1145
– weld ends acc. to SMS 3008, BS4825-1/ASME BPE/DIN 11866 series C or DIN 11850 series 2/DIN 11866 series A/DIN EN 10357 series A
– Clamp acc. to SMS 3017, BS 4825-3/ASME BPE or DIN 32676 series A

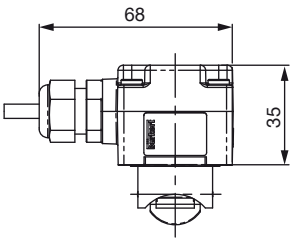
Dimensions [mm] SE12 electronic module

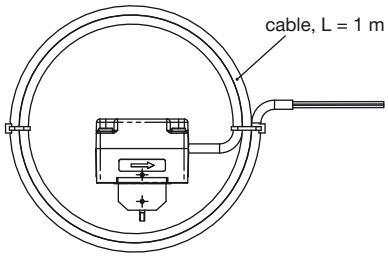
Electronic module SE12

with free positionable 5 pin M12 male fixed connector



with cable



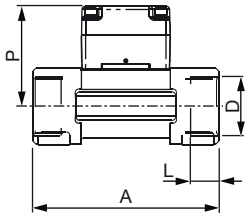


DTS 1000083708 EN Version: W Status: RL (released | freigegeben | validé) printed: 05.03.2018

Dimensions [mm] 8012

8012 with internal thread connection

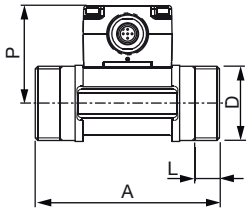
G, NPT or Rc
in stainless steel (316L – 1.4404) or
brass (CuZn39Pb2)



DN [mm]	P [mm]	A [mm]	D [inch]	L [mm]
15	57.5	84.0	G½ NPT½ Rc½	16.0 17.0 15.0
20	55.0	94.0	G¾ NPT¾ Rc¾	17.0 18.3 16.3
25	55.2	104.0	G 1 NPT 1 Rc1	23.5 18.0 18.0
32	58.8	119.0	G 1¼ NPT 1¼ Rc1¼	23.5 21.0 21.0
40	62.6	129.0	G 1½ NPT 1½ Rc1½	23.5 20.0 19.0
50	68.7	148.5	G 2 NPT 2 Rc2	27.5 24.0 24.0

8012 with external thread connection

G, NPT or Rc
in stainless steel (316L – 1.4404) or
brass (CuZn39Pb2)
or PVC

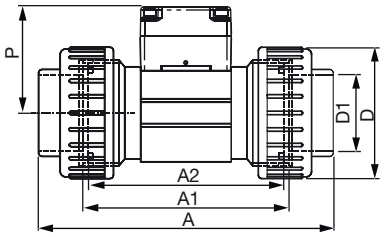


DN [mm]	P [mm]	A [mm]	D [inch]	[mm]	L [mm]
06	52.5	90.0	G½	–	14.0
08	52.5	90.0	**½	M 16 x 1.5	14.0

** G, NPT, RC according to fitting version

8012 with true union connection

DIN 8063, ASTM D 1785/76 or JIS K in PVC



DN [mm]	P [mm]	D [mm]	A DIN	A ASTM	A JIS	D1 DIN	D1 ASTM	D1 JIS	A2 [mm]	A1 [mm]
15	57.5	43	128	130.0	129	20	21.3	18.40	90	96
20	55.0	53	144	145.6	145	25	26.7	26.45	100	106
25	55.2	60	160	161.4	161	32	33.4	32.55	110	116
32	58.8	74	168	170.0	169	40	42.2	38.60	110	116
40	62.6	83	188	190.2	190	50	48.3	48.70	120	127
50	68.7	103	212	213.6	213	63	60.3	60.80	130	136

DTS 1000083708 EN Version: W Status: RL (released | freigegeben | validé) printed: 05.03.2018

Ordering chart for 8012 with optical measuring method, 12...36 V DC, 5 pin M12

Attention!
Two versions of the fitting in DN15 and DN20 exist, having different K factors.
Only version 2, identified by the “v2" marking, is available. The “v2" marking can be found:

• on the bottom of the DN15 or DN20 fitting in plastic:

• on the side of the DN15 or DN20 fitting in metal:

Process connection	Standard	Output*	Article no. DN06 – ¼"	DN06 – ½"	DN08 – ½"	DN15	DN20	DN25	DN32	DN40	DN50
Brass – Medium temperature max. 100 °C, PN16											
Internal thread	G	Pulse	–	–	–	556003	556004	556005	556006	556007	556008
		Pulse +4...20 mA	–	–	–	556012	556013	556014	556015	556016	556017
	NPT	Pulse	–	–	–	556018	556019	556020	556021	556022	556023
		Pulse +4...20 mA	–	–	–	556024	556025	556026	556027	556028	556029
	Rc	Pulse	–	–	–	556030	556031	556032	556033	556034	556035
		Pulse +4...20 mA	–	–	–	556036	556037	556038	556039	556040	556041
External thread	G	Pulse	556000	556001	556002	–	–	–	–	–	–
		Pulse +4...20 mA	556009	556010	556011	–	–	–	–	–	–
Stainless steel – Medium temperature max. 100 °C, PN16											
Internal thread	G	Pulse	–	–	–	556045	556046	556047	556048	556049	556050
		Pulse +4...20 mA	–	–	–	556054	556055	556056	556057	556058	556059
	NPT	Pulse	–	–	–	556061	556062	556063	556064	556065	556066
		Pulse +4...20 mA	–	–	–	556068	556069	556070	556071	556072	556073
	Rc	Pulse	–	–	–	556074	556075	556076	556077	556078	556079
		Pulse +4...20 mA	–	–	–	556080	556081	556082	556083	556084	556085
External thread	G	Pulse	556042	556043	556044	–	–	–	–	–	–
		Pulse +4...20 mA	556051	556052	556053	–	–	–	–	–	–
	NPT	Pulse	–	–	556060	–	–	–	–	–	–
		Pulse +4...20 mA	–	–	556067	–	–	–	–	–	–
PVC - Medium temperature max. 60 °C, PN10											
True union	DIN 8063	Pulse	-	-	-	556088	556089	556090	556091	556092	556093
		Pulse +4...20 mA	-	-	-	556094	556095	556096	556097	556098	556099
	ASTM	Pulse	-	-	-	556100	556101	556102	556103	556104	556105
		Pulse +4...20 mA	-	-	-	556106	556107	556108	556109	556110	556111
	JIS	Pulse	-	-	-	556112	556113	556114	556115	556116	556117
		Pulse +4...20 mA	-	-	-	556118	556119	556120	556121	556122	556123
External thread	G	Pulse	-	556086	556124	-	-	-	-	-	-
		Pulse +4...20 mA	-	556087	556125	-	-	-	-	-	-

* Factory setting:
- pulse NPN (raw frequency)
- pulse NPN (raw frequency) +4...20 mA (sinking mode, 0...250 Hz)
- other configurations on request

Further versions on request

Port connection
Weld ends SMS 3008, BS 4825-1/ASME BPE/DIN 11866 series C or DIN 11850 series 2/DIN 11866 series A/ DIN EN 10357 series A
Clamp DIN 32676 series B, SMS 3017, BS 4825-3/ASME BPE or DIN 32676 series A
Flange EN1092-1/B1/PN16, ANSI B16-5 or JIS 10K
True union ISO 10931
Spigot ISO 10931

Materials
Fitting: PP

Please also use the “request for quotation” form on page 11 for ordering further versions of the 8012

DTS 1000083708 EN Version: W Status: RL (released | freigegeben | validé) printed: 05.03.2018

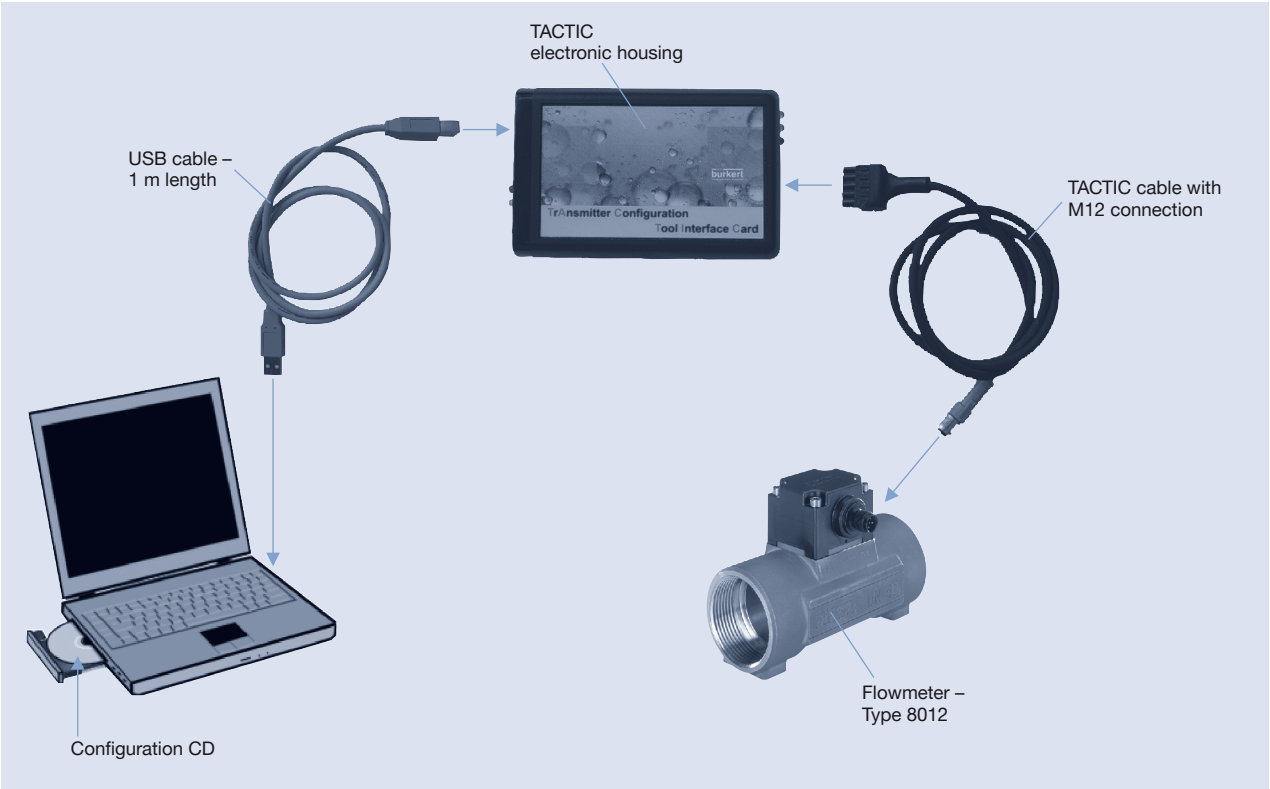
Ordering chart – accessories for 8012 (has to be ordered separately)

O-ring set

Specification	Article no.							
	DN06	DN08	DN15	DN20	DN25	DN32	DN40	DN50
For metal fitting – FKM	426340	426340	426340	426340	426340	426340	426340	426340
For metal fitting – EPDM	426341	426341	426341	426341	426341	426341	426341	426341
For plastic fitting – FKM	–	448679	431555	431556	431557	431558	431559	431560
For plastic fitting – EPDM	–	448680	431561	431562	431563	431564	431565	431566

Specification	Article no.
4 short screws (M4 x 35 – A4) + 4 long screws (M4 x 60 – A4)	555775
 5 pin M12 female straight cable plug moulded on cable (2 m, shielded)	438680
 5 pin M12 female straight cable plug with plastic threaded locking ring, to be wired	917116
Configuration tool TACTIC (1-m length USB cable + 1 TACTIC cable with M12 connection + 1 TACTIC electronic housing + 1 configuration CD)	556500
Connecting cables: 8012-TACTIC and TACTIC-PC (1-m length USB cable + 1 TACTIC cable with M12 connection)	556160

Configuration tool TACTIC



DTS 1000083708 EN Version: W Status: RL (released | freigegeben | validé) printed: 05.03.2018

Variants of flowmeter Type 8012

A 8012 flowmeter consists of:

– an **SE12 electronic module** with either optical or magnetic measuring principle, with only pulse output or with both pulse and 4…20 mA current outputs – configured as standard (see ordering chart, Type SE12) or customized (see specifications sheet on last page). The electrical connection is carried out through a 5 pin M12 fixed connector or a 1 m cable.

– an **S012 fitting** available in different materials providing many installation options of the electronic module into all pipes, ranging from DN06…DN65, due to the large range of process connections (see specification sheet on last page).

– screws and O-ring (see ordering chart for accessories).

The following charts indicate the different variants:

SE12 electronic module

Specifications	Power supply	Pipe connection	Output*	Electrical connection	Article no.
Magnetical measuring principle	12…36 V DC	DN06, DN08, DN15 v2 and DN20 v2	Frequency with pulse NPN	Free positionable 5 pin M12	557054
			Frequency with pulse NPN +4…20 mA	Free positionable 5 pin M12	557058
			Frequency with pulse NPN	with 1 m cable	557056
			Frequency with pulse NPN +4…20 mA	with 1 m cable	557060
		DN15...DN50 (except DN15 v2 and DN20 v2)	Frequency with pulse NPN	Free positionable 5 pin M12	557053
			Frequency with pulse NPN +4…20 mA	Free positionable 5 pin M12	557057
			Frequency with pulse NPN	with 1 m cable	557055
			Frequency with pulse NPN +4…20 mA	with 1 m cable	557059
Optical measuring principle	12…36 V DC	DN06, DN08, DN15 v2 and DN20 v2	Frequency with pulse NPN	Free positionable 5 pin M12	557062
			Frequency with pulse NPN +4…20 mA	Free positionable 5 pin M12	557066
			Frequency with pulse NPN	with 1 m cable	557064
			Frequency with pulse NPN +4…20 mA	with 1 m cable	557068
		DN15...DN50 (except DN15 v2 and DN20 v2)	Frequency with pulse NPN	Free positionable 5 pin M12	557061
			Frequency with pulse NPN +4…20 mA	Free positionable 5 pin M12	557065
			Frequency with pulse NPN	with 1 m cable	557063
			Frequency with pulse NPN +4…20 mA	with 1 m cable	557067

* Factory setting: - pulse NPN (raw frequency)
- pulse NPN (raw frequency) +4…20 mA (sinking mode, 0…250 Hz)
- other configurations on request

S012 fitting (possibilities versions – ⚠ can not be ordered separately)

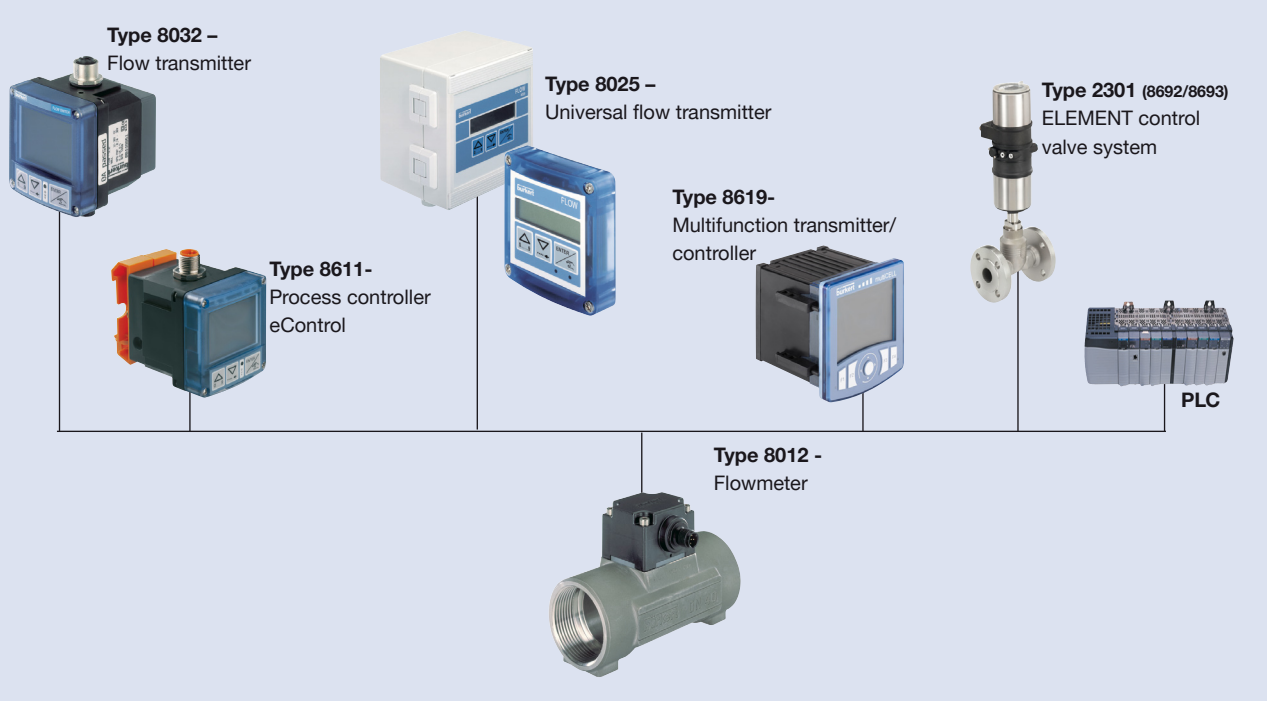
Port connection	Materials	Available fitting								
		DN06	DN08	DN15	DN20	DN25	DN32	DN40	DN50	DN65
Internal thread	Brass, stainless steel	–	–	Yes	Yes	Yes	Yes	Yes	Yes	–
External thread	Brass, stainless steel, PVC, PP	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
	Stainless steel acc. SMS 1145	–	–	–	–	Yes	–	Yes	Yes	–
Weld ends	Stainless steel	–	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Clamp	Stainless steel	–	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Flange	Stainless steel	–	-	Yes	Yes	Yes	Yes	Yes	Yes	–
True union	PVC	–	Yes	Yes	Yes	Yes	Yes	Yes	Yes	–
	PP	–	–	Yes	Yes	Yes	Yes	Yes	Yes	–
Spigot	PVC, PP	–	–	Yes	Yes	Yes	Yes	Yes	Yes	–

⚠ **Fitting in PVDF not available**

Note: Such new 8012 configuration should be ordered to your Bürkert Sales Center.

DTS 1000083708 EN Version: W Status: RL (released | freigegeben | validé) printed: 05.03.2018

Interconnection possibilities with other Bürkert devices



Fluid block system for the 8012

The modular concept of the SE12 electronic module allows fully customized, pre-mounted and tested solutions to completely meet application needs. It is designed for being mounted in a system block, combined with other Bürkert products. This allows cost reduction and compact design for customized solutions.
Please contact your Bürkert local office to have individual counselling and engineering support in order to find the best solution corresponding to your application.

DTS 1000083708 EN Version: W Status: RL (released | freigegeben | validé) printed: 05.03.2018

bürkert

Note

You can fill out the fields directly in the PDF file before printing out the form.

8012 flowmeter – request for quotation

Please fill out this form and send to your local Bürkert Sales Centre with your inquiry or order

Company	Contact person
Customer no.	Dept.
Address	Tel./Fax
Town / Postcode	E-Mail

8012 flowmeter **Quantity** **Desired delivery date**

S012 fitting

Pipe diameter DN ☐ 6 ☐ 8 ☐ 15 ☐ 20 ☐ 25 ☐ 32 ☐ 40 ☐ 50 ☐ 65

Materials:

Body ☐ Brass ☐ Stainless steel
☐ PVC ☐ PP

Seal ☐ FKM ☐ EPDM

Process connection:

Internal thread ☐ G ☐ NPT ☐ Rc

External thread ☐ G ☐ NPT ☐ Rc

Weld ends ☐ EN ISO1127/ISO4200/DIN 11866 series B ☐ SMS 3008
☐ DIN 11850 series 2/DIN 11866 series A/DIN 10357 series A ☐ BS4825-1/ASME BPE/DIN 11866 series C

Clamp ☐ DIN 32676 series B ☐ SMS 3017
☐ BS4825-3/ASME BPE ☐ DIN 32676 series A

Flange ☐ EN 1092-1/B1/PN16 ☐ ANSI, B16-5 ☐ JIS 10K

True union ☐ DIN 8063 ☐ ASTM ☐ JIS
☐ DIN 16962

Spigot ☐ DIN 8063
☐ DIN 16962

Special surface finish ☐ without ☐ with Ra int. = Ra ext. =

Flow unit (will determine the needed volume unit)
☐ l/s ☐ Ga/s ☐ USGa/s
☐ l/min ☐ m³/min ☐ Ga/min ☐ USGa/min
☐ l/h ☐ m³/h ☐ Ga/h ☐ USGa/h

SE12 electronic module

Measuring method ☐ Magnetic ☐ Optical

Electrical connection ☐ Multipin M12 ☐ with 1 m cable

Output signal ☐ Transistor (fill in 1. below) ☐ Transistor and current (fill in 1. and 2. below)

1. Transistor output feature

Transistor operation ☐ NPN ☐ PNP

Output configured as

☐ Raw frequency (paddle wheel rotation)

☐ Proportional frequency ("V" determined volume per pulse, e.g.. 0.2l/Pulse
V =

☐ Switching mode
☐ Hysteresis ☐ Window
☐ Inverted ☐ Not inverted
Switching threshold value:
Low value:
High value:
Switch delay: s (0…3276 s)

☐ Detection of flow direction (only with optical version)
Switching mode
☐ Inverted
☐ Not inverted
Switch delay: s (0…3276 s)

2. Current output feature

Wiring mode ☐ sinking ☐ Sourcing

Output configured as

☐ 4…20 mA current (correspond to the paddle wheel frequency 0…250 Hz)

☐ 4…20 mA current (correspond to a specific flow range)
Flow value corresponding to:
4 mA:
20 mA:

☐ without damping ☐ with damping (min. level 1, max. level9)
Level:

reset form

To find your nearest Bürkert facility, click on the orange box → www.burkert.com

1803/22_EU-en_00895000

DTS 1000083708 EN Version: W Status: RL (released | freigegeben | validé) printed: 05.03.2018